

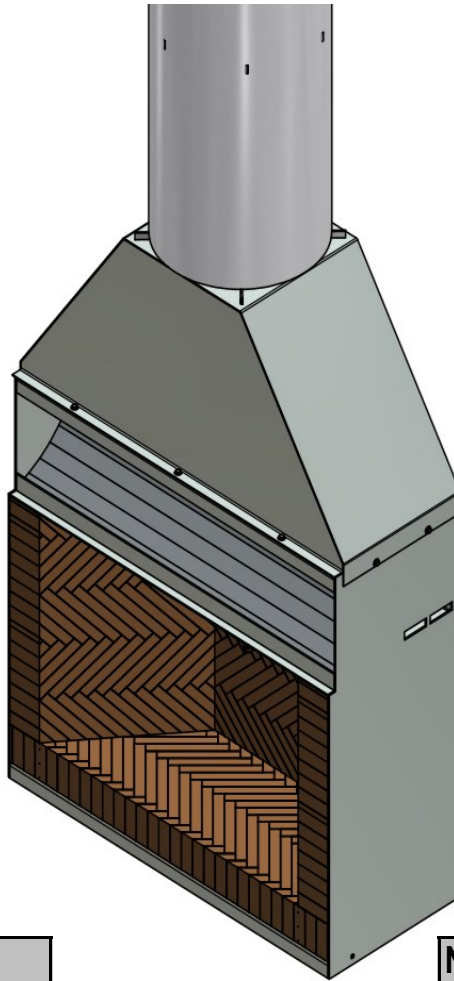
Rumford 600-760-920-1050-1220

Solid Fuel Burner, Rumford Open Fire Installation Instructions

Note: Not Included– see page 2:

- Hearth and Plinth
- Installation

NOTE : Non-Combustible
Cladding eg:
10mm Promina Board,
10mm Supalux,
Latex Plaster.
(Not Supplied)



NOTE ON RUMFORDS

Like the traditional brick-back fire of yesteryear, the Warmington Rumford fire is built with the experience and techniques of the past These make a grand statement in the home and with the introduction of the Gas Log Lighter for ease of lighting are simple to operate, however they can lack in efficiency.

Note: FLUE SYSTEMS Casing....

Flue system may require to be Doubled lined to comply.
Ref ASNZS:2918:2001 4.3 Flue pipe casing

Note: BRICK OUT GUIDE Details....

When purchasing the fire bricks the bricking guide will come with the bricks.

Fire, flue system and instructions to comply with ASNZS 2918:2001

Keep these Instructions for further reference.....Ensure that you have the correct and current installation details for the Warmington Fire

Installation

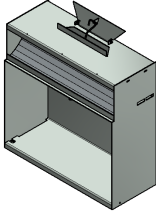

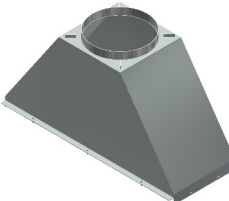
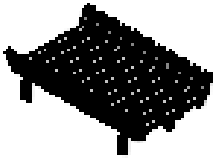
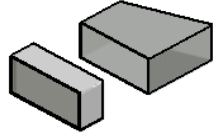
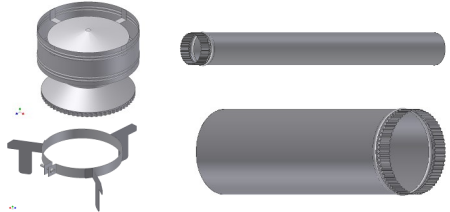
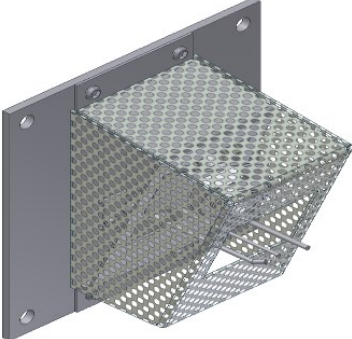
The Warmington unit is to be installed by a certified Warmington installer or an Approved NZHHA Installation Technician.

IMPORTANT

Read all the instructions carefully before commencing the Installation. Failure to follow these instructions may result in a fire hazard and void the warranty

Due to continued product improvement, Warmington Ind LTD reserves the right to change product specifications without prior notification.

Components required for construction

Supplied as Rumford	No:	Components are required for Install	No:
Rumford Firebox 	1	Fire Bricks (H40) 25X115X230mm Other Sizes Available 	650
Firebox Adaptor 	1	Fire Grate 	1
Caitec venting system: caitec steel brick, caitec perf & extension. 	2	Other components not supplied	
		Non Combustible Cladding (Promat-Superlux-Brick-Stone etc)	
		10:1 Fill /Crush (vermiculite etc).	
		Aluminium Tape 3M Scotch Brand	
		Gas & Electrical Work onsite.	
		Installation Fire/Flue kit/flashing.	
		Installation Brickwork.	
		Council Permit.	
		Optional add-ons	
Warmington Flue kit 	1	Gas Flare & Control Box. 	1

POINTS TO CONSIDER PRIOR TO INSTALLATION

Location of the Fire. Open fires are better located at one end of a room or area, as they project the heat away from their opening.

The Topography of the land .

The slope and position of the land in relation to the home has a bearing on how the wind will interact with the fire and flue system. Care needs to be taken to ensure that the flue termination is in the correct position to maximise performance.

The Prevailing Wind.

Care needs to be taken to ensure that the flue termination is in the correct position as wind and gusts that hits the flue and cowl system may overcome the cowl and draft back down the flue into the home. This can be a combination of down draft and high pressure.

Hearth and Plinth:

The Height of the Hearth off the Floor. The Finishing that is to be used on the Hearth is to be allowed for at the design stage.
Note : Ensure Air Intake at Base of Firebox is not blocked or restricted .

Positioning of the Flue System:

There is a maximum distance that an offset flue can be Installed . Reference to AS/NZS 2918:2001 .

Flue And Fire Clearance:

To be maintained to the Manufactures Instructions &/or Comply with appropriate Standards & Building Codes .

Pressure Differential, Venting & External Air into the Building :

All fires need air to burn and draw correctly, Kitchen Fans, Air Conditioning units, High Wind Zones, Naturally forming Draft spaces, can all have an effect on the pressure difference from inside the building to the outside. A lower pressure in the building may induce a draft down the flue system and back into the building causing the fire to smoke or spill into the building. **Care needs to be taken at the design and installation stage to adequately vent the building, or some mechanical system to ensure that there is always a neutral or positive pressure at the fireplace and a negative pressure at the flue outlet.** This will ensure that the draft in the flue system is always to the outside.

“CAITEC AIR” the limits and requirements. See details in these Spec’s

Wind Noise:

You may encounter wind noise in some installations. It is recommended to use an enclosed chase with a chimney pot to help reduce noise. There will always be some noise from the flue systems of all fireplaces.

Installation Notes:

Due to the expansion and contraction of metal fireplaces a 3mm gap between the flange and the finished surround should be maintained.

INSTALLATION ORDER OF OPERATIONS Installation is not provided

Prior to Construction and Installation Important Notes:

Install to AS/NZS 2918:2001.

Install to manufacture’s specifications.

All new installations require a permit.

For special requirements concerning materials (timber mantle and surrounds) within close proximity of Warmington products, please contact your local Warmington Technical Consultant or designated Installer.

Stage 1: Frame Construction Procedure by Builder.

Mark out Flue Centre on Floor.

Mark out Heat Cell Clearance requirements.

Construct Plinth only, to required height. *

Stage 2: Install Procedure by Certified “Warmington Installer” or “NZ Home Heating Association Installer” only. (See www.homeheat.co.nz)

Fit Fire to Plinth.

Fit Adaptor to Firebox.

Construct Enclosure around the Firebox.

Fit Flue System.

Fit Cowl and Flashing System

Stage 3: Finishing Procedure by Builder. NOTE : Bricklaying of Firebricks can be carried out by clients Bricklayer at a Convenient time.

Construct Hearth to required thickness. *

Finish enclosure and Hearth to Customers requirements (e.g. paint / tiles).

Close in enclosure and chimney chase . (If in timber Alcove).

* Note: A Certified Installer can Install Hearth and Plinth also.

Ensure that the Warmington and flue system is swept annually or more frequently if required.

To Sweep Flue and Firebox:

Cover front of fire with sheets.

Remove cowl from top of chimney.

Sweep from the top, down the flue.

Remove all soot and ash.

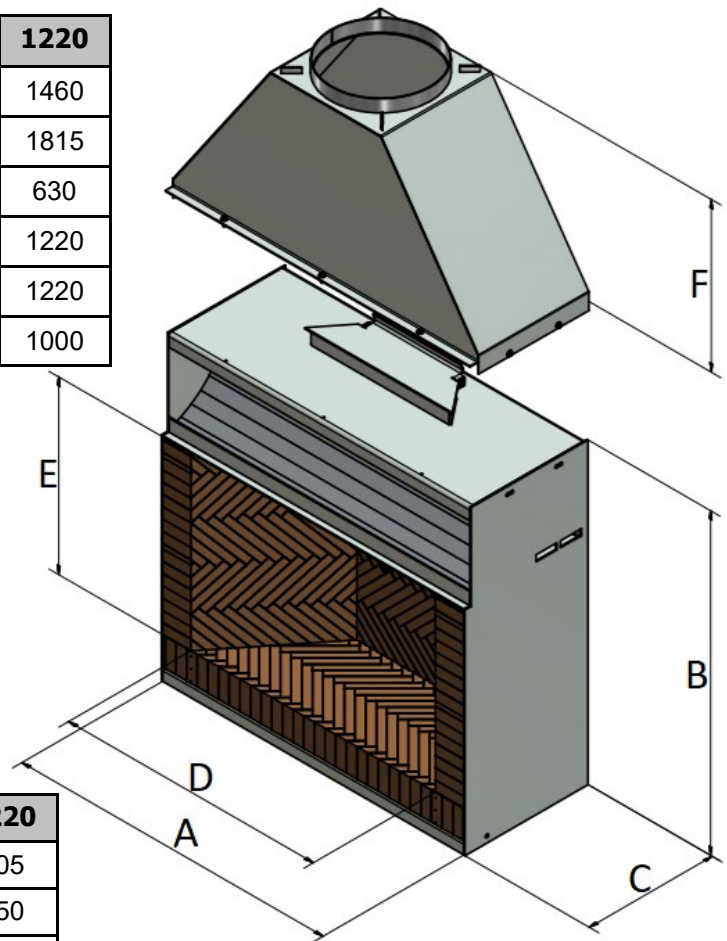
Ensure cowl and bird protection is clean and replaced.

Visually inspect fireplace and flue system.

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WARMINGTON RUMFORD FIREBOX DIMENSIONS

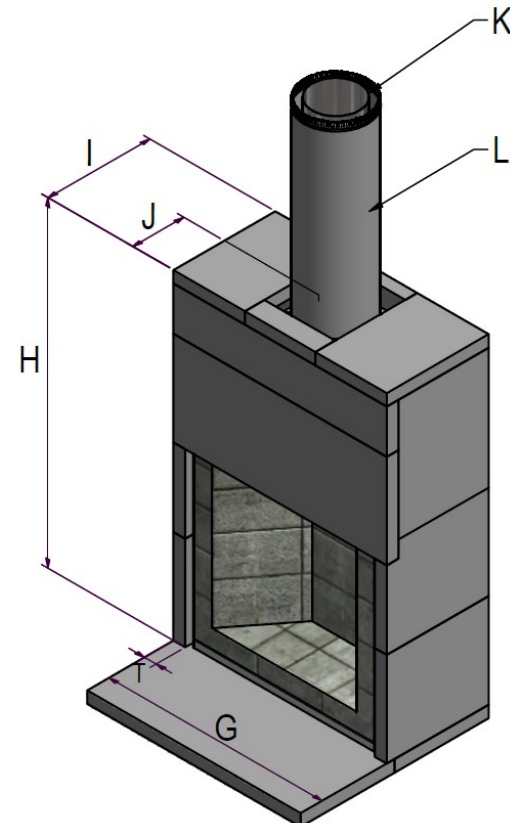
Description		600	760	920	1050	1220
Firebox Width	A	840	1000	1160	1290	1460
Firebox Height	B	1220	1340	1445	1620	1815
Firebox Depth	C	530	530	530	550	630
Flange Width	D	600	760	920	1050	1220
Flange Height	E	640	760	920	1050	1220
Adaptor Height	F	415	415	505	600	1000


Minimum Flue Height

Flue Height	3600
Measured From Top of Adaptor	B + F + 3600

CLEARANCES TO COMBUSTIBLE MATERIAL

Description		600	760	920	1050	1220
To Centre of Flue	J	TBC	TBC	355	355	405
Flue Diameter	K	200	250	300	400	450
Liner Diameter	L	300	350	400	500	550
Heat-cell Width	G	1040	1200	1360	1490	1660
Heat-cell Depth	I	650	650	650	700	780
Heat-cell Height	H	1735	1855	2050	2320	2915
Heat-cell Thickness	T	75	75	75	75	75


Check List

Firebox	
Grate	
Adaptor & Bolts	
Packed by	

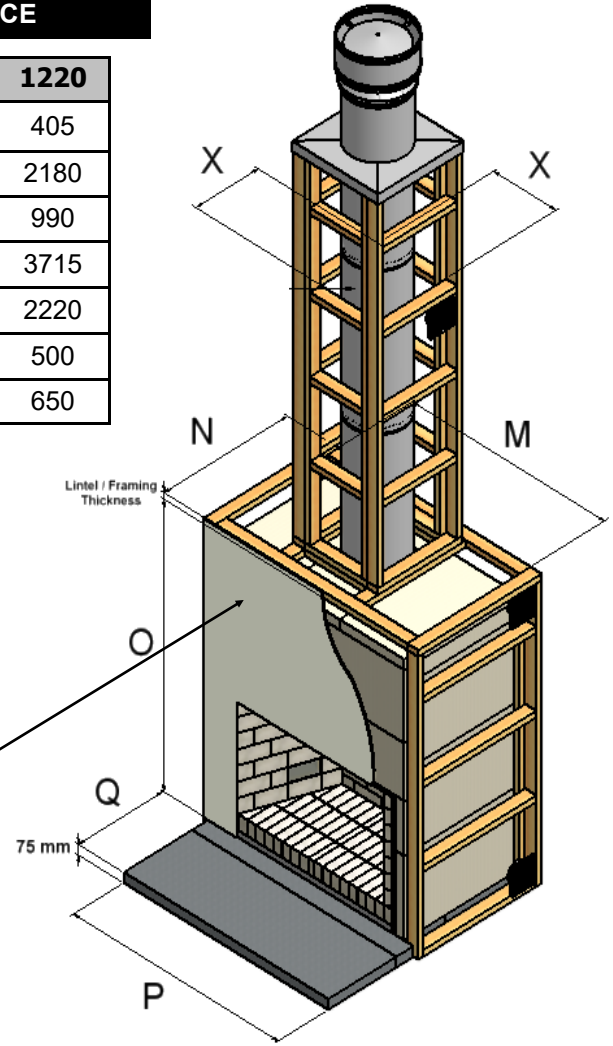
Due to continued product improvement, Warmington Ind LTD reserves the right to change product specifications without prior notification.

TIMBER FRAMING & TRIMOUT DETAILS - HEAT CELL CLEARANCE

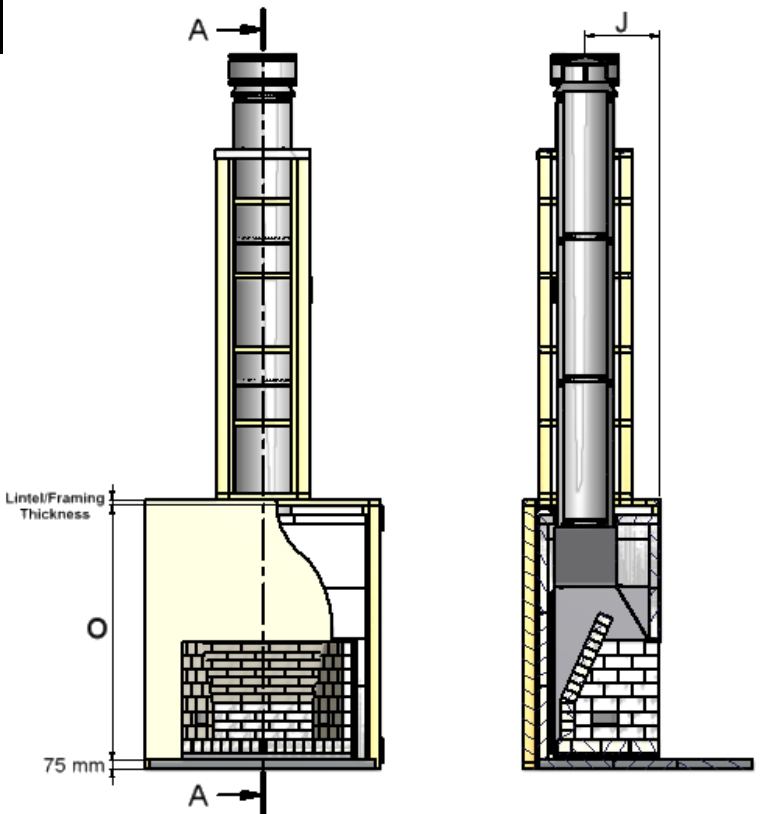
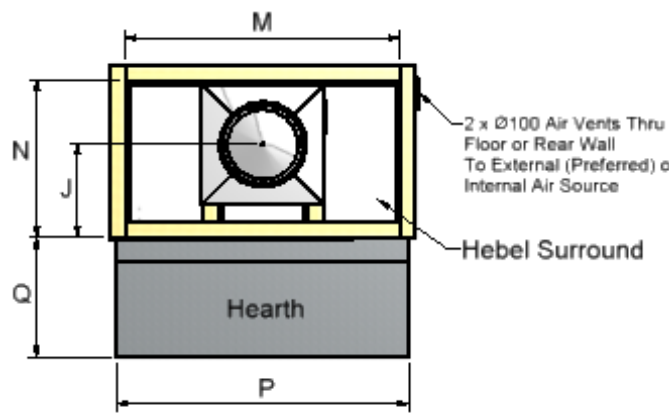
Description		600	760	920	1050	1220
To Centre of Flue	J	TBC	TBC	355	355	405
Heat Cell Clearance Width	M	1560	1720	1880	2010	2180
Heat Cell Clearance Depth	N	890	890	890	910	990
Heat Cell Clearance Height	O	2535	2655	2850	3120	3715
Hearth Width	P	1600	1760	1920	2050	2220
Hearth Projection	Q	500	500	500	500	500
Chimney Chase Clearance	X	400	450	500	600	650

Note:
Centreline of flue is NOT in centre of alcove

Note:
Non-combustible cladding eg. 10mm promina board, 10mm Supalux, latex plaster etc. (not supplied).



PLAN, FRONT ELEVATION & CROSS SECTION



Note:
50mm clearance from the flue liner to timber framing is required if single lined, see page 19.

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FIREBOX INSTALLATION

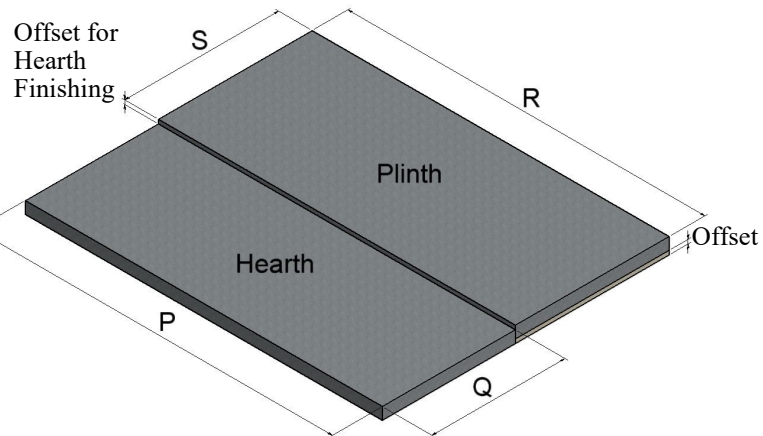
This is a general installation guide only – Contact a “NZHHA Installer” for Installation Advice.

See : www.homeheat.co.nz , choose “members” & pick your Area & Fire type (wood / Gas etc) this will provide you with a NZHHA Certified Installer (use the SFAIT Installers Only .)

1. All the dimensions are minimums
2. Fit the Plinth into position in the Cavity. If onto a wooden floor ensure that an insulating plinth is fitted as per the specifications. **Ensure that the plinth is elevated to allow for finishing on the hearth. (See Hearth and plinth details)**
3. Fit the firebox into the Cavity. Bolt the fire box to the plinth or through to the floor with the bolting point provided on the Left and Right hand sides of the fire box or drill holes through base for Bolts (seismic restraints bolts not provided).
4. Fit the Adaptor to the Fire box. Ensure that exhaust sealant is used between the fire and Adaptor. Bolt into position with the bolt in the Left and right hand sides of the Fire box.
5. Install the flue system. Ensure that the Flue system comply to ASNZS 2918
6. Finish the enclosure around the fire.

HEARTH & PLINTH CONSTRUCTION DETAILS

Description		600	760	920	1050	1220
Hearth Width	P	1600	1760	1920	2050	2220
Hearth Projection	Q	500	500	500	500	500
Plinth Width	R	1040	1200	1360	1490	1660
Plinth Depth	S	650	650	650	700	780



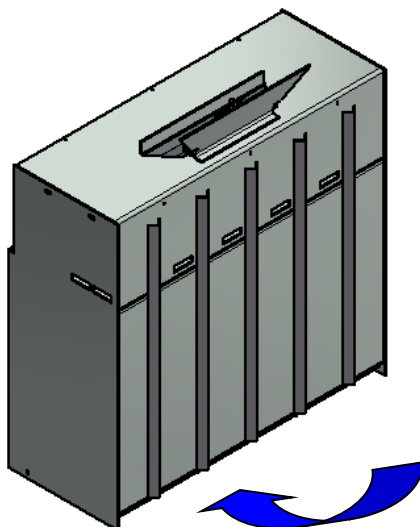
Note: Hearth and Plinth Construction.

For combustible flooring an insulating hearth and plinth of 75mm is required.

Plinth to be off set above hearth by the hearth finishing's (e.g. tiles / granite / plaster / etc)

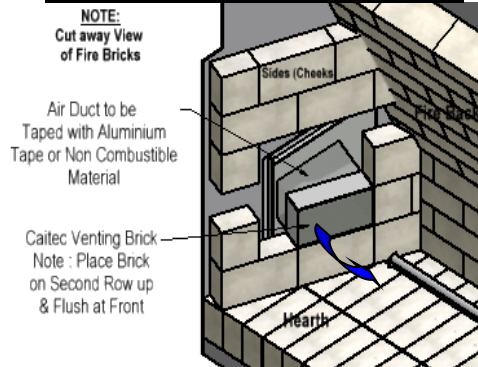
***Note: If Solid Plastering the Heat Cell structure, it is recommended to use a fibreglass mesh with a latex plaster to minimise the chance of the plaster cracking (see your plasterer for correct materials and applications).**

“CAITEC” TECHNOLOGY—ROOM AIR REPLACEMENT



Rear View and Firebox.

CAITEC Air Venting System



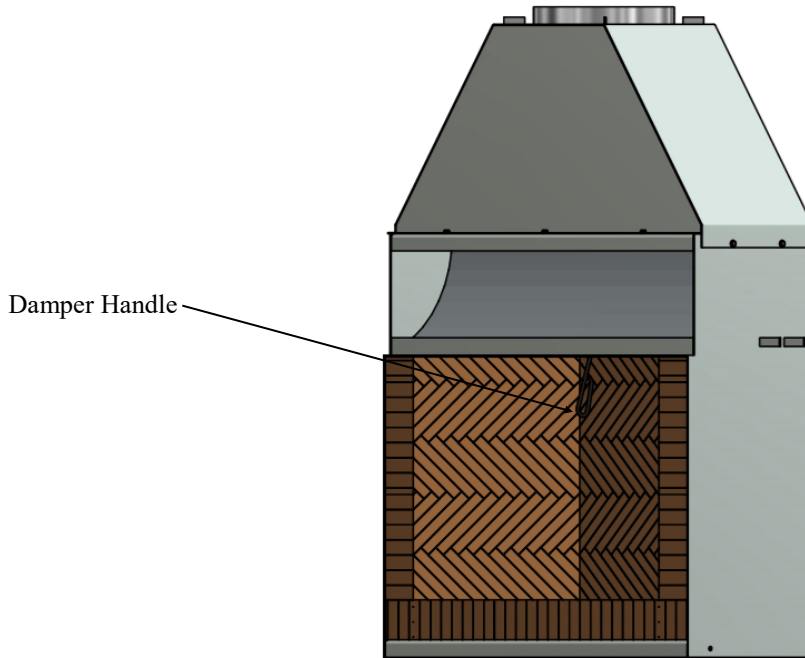
“Caitec” draws air from an external air source to ensure that the open fire has pre-heated combustion air maximising efficiency while maintaining the home at constant pressure equilibrium, reducing the risk of back drafting .

Ensure that the cavity is vented to Outside Fresh Air and the Warmington Fire will take care of the rest. 2 x 100mm Diameter vent are required (Or equivalent to that.)

Builder to supply external air to the Cavity and the “Warmington Fire” takes care of the rest.

External Air Supply for “Caitec Air” and Cooling

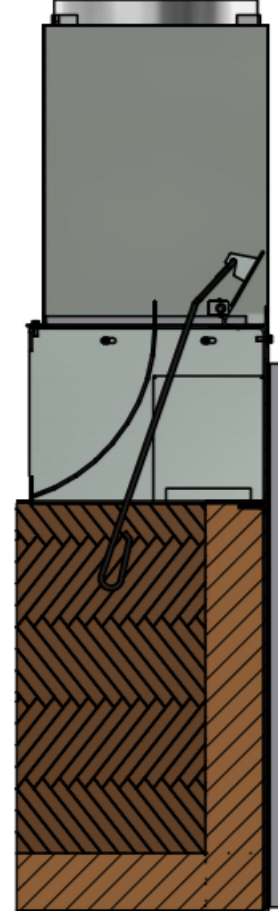
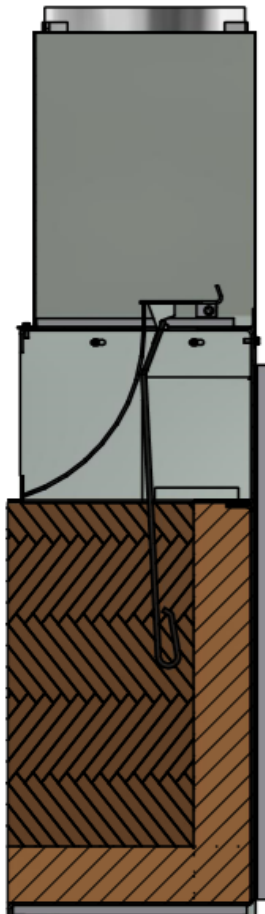
OPERATION OF DAMPER



DAMPER - CLOSED

DAMPER - OPEN

NOTE:
The Weight of
the damper will
over Center &
Hold the Damper
Open



Double 3.6m Flue Kit Details

FLUE DETAILS DIMENSIONS

Minimum Flue Height	
Flue Height	3600
Measured From Top of Adaptor	B + F + 3600

Note:

Flue system may require to be Doubled lined to comply.
Ref ASNZS:2918:2001 4.3 Flue pipe casing

Ensure that a Standard Tested Warmington Flue system is used on the Warmington fires.

Flue Details	No:	600	760	920	1050	1220
Cowl	1	200	250	300	400	450
Top Spider	1	200	250	300	400	450
Cone	1	200/300	250/350	300/400	400/500	450/550
Flue Diameter	3	200	250	300	400	450
Liner Diameter	3	300	350	400	500	550
Spacer	3	200	250	300	400	450

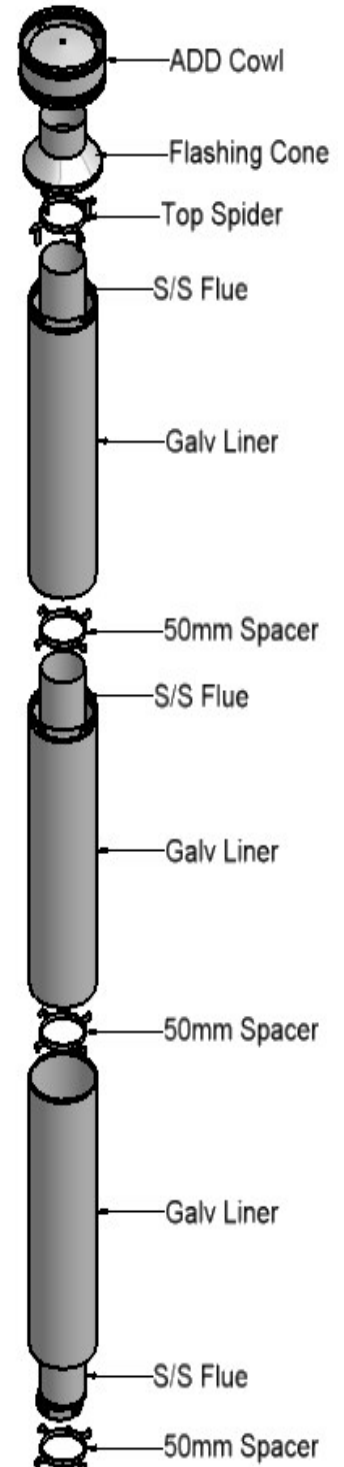
FLUE SYSTEM INSTALLATION GUIDE

This is a general installation guide only – Contact a “NZHHA Installer” for Installation Advice.
See : www.homeheat.co.nz , choose “members” & pick your Area & Fire type (wood / Gas etc)
this will provide you with a NZHHA Certified Installer (use the SFAIT Installers Only .)

1. Install the first length of flue pipe with the crimped end down, inside the Adaptor collar, ensure that the flue pipe is sealed into the collar with exhaust sealant. Rivet the flue in 3 places around the Adaptor collar. Place a spacer around the flue pipe approximately 150mm above the adaptor collar. Secure in position by tightening the screw and nut.
 2. Install the second length of flue pipe with the crimped end down and fit by riveting in at least 3 places around the flue pipe joint. Ensure that the flue is sealed into position with sealant.
 3. Install the first section of flue pipe liner with the Crimped end up, over the flue pipe and over the spacer that is fixed to the flue pipe. This spacer will keep the liner concentric about the flue pipe.
 4. Position flue spacer at the flue pipe joint for every length of “Flue pipe” and “Liner”.
- Repeat the Steps from 1 – 4 to the installed required height of the flue system. The flue system is to comply with ASNZS 2918:2001 4.9.1

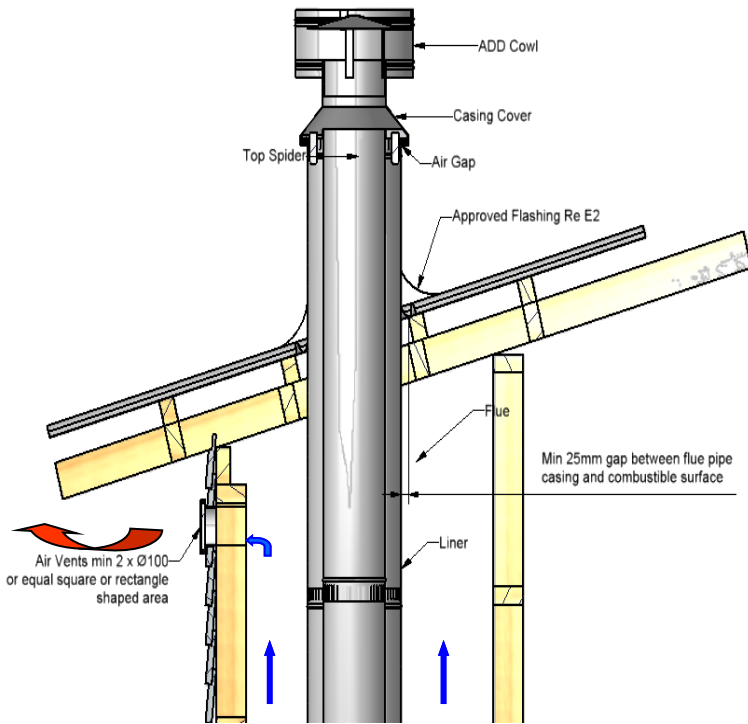
- a “the flue pipe shall extend not less than 4.6m above the top of the floor protector.”
- b “ the minimum height of the flue system within 3 m distance from the highest point of the roof shall be 600mm above that point.”
- c “the minimum height of the flue system further than 3 m from the highest point of the roof shall be 1000mm above the roof penetration.”
- d “no part of any building lies in or above a circular area described by a horizontal radius of 3 m about the flue system exit.”

1. **NOTE:** The last length of flue pipe needs to extend past the liner so that when the “top spider” and the “Flashing cone” are fitted, that the “flashing cone” and the “flue pipe” are **flush**, or that the “flue pipe” is **5mm lower** than the “Flashing cone”.
2. Fit the “Top Spider” into position, ensure that the legs of the spider are fitted inside the liner and that the spider is positioned hard down onto the liner and tighten with the screw and nut.
3. Place the “Flashing cone” over the “flue pipe” and press hard down onto the “Top Spider”. (Note that the “Flue pipe” and the “Flashing Cone” are either flush or the “Flue pipe” is 5mm Lower than the “Flashing cone”.) Ensure that the “Flashing cone” is clear for the venting from the “Liner” and the “flue pipe”.
4. Fit the “Cowl” to the top of the flue pipe. The “Cowl”, “Flashing cone”, and the “Flue pipe” can be secured to each other with the uses of a stainless steel self tapping screw. This will allow the “Cowl” to be removed for cleaning.
5. Flue system may require Bird Proofing due to the installation and locations, discuss this with your installer for the best advice.
6. If the Flue system is installed into a “Chimney Chase”, allow for air vent as close to the top of the chase as practical, or allow venting through the “Chimney Chase Flashing”. A “Venting Flashing cone” and a 25mm gap around the Liner with a “Venting Flashing Cone-Spider” can be used. Ref : to Figures

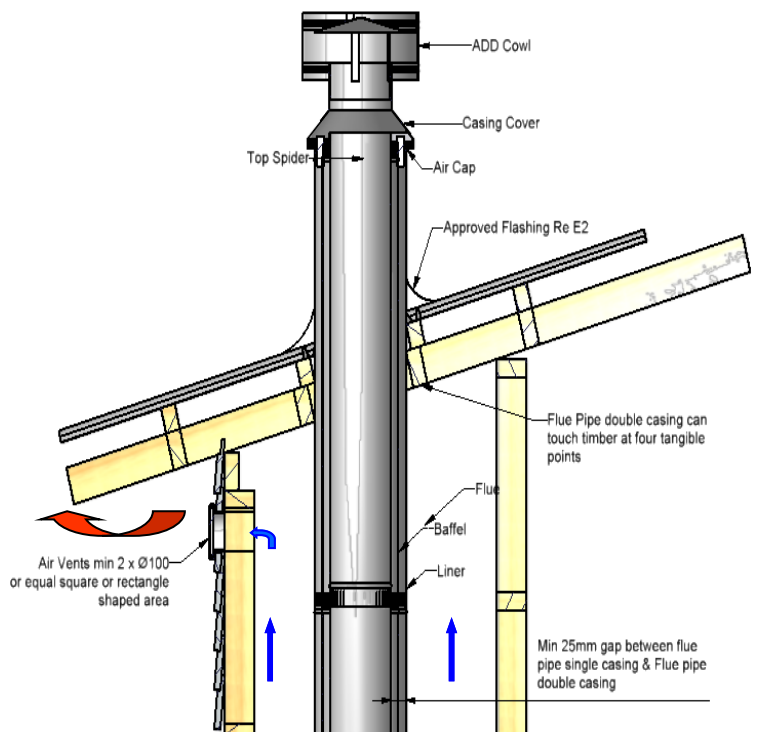


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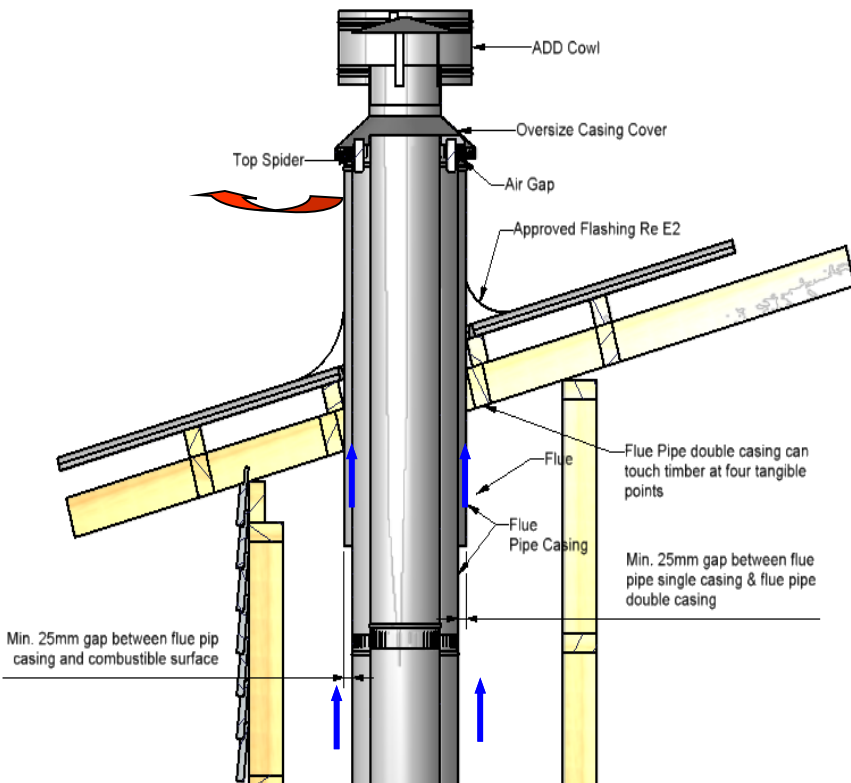
FLUE PENETRATION Vented through Alcove (Single lined Flue System)



FLUE PENETRATION Vented through Alcove (Double lined Flue System)



FLUE PENETRATION Vented through Top Flashing



Note: FLUE SYSTEMS Casing....

Flue system may require to be Doubled lined to comply.
Ref AS/NZS:2918:2001 4.3 Flue pipe casing

Note :

External Requirements
Refer to AS/NZS2918:2001 4.9.1

Install Flue system to AS/NZS2918:2001

When using a rubber or Bitumen flashing (Butynol, Dectite) an Additional Flue pipe Baffle is required.

All external air vents & ceiling penetrations must be bird proofed with permanently fixed screens.

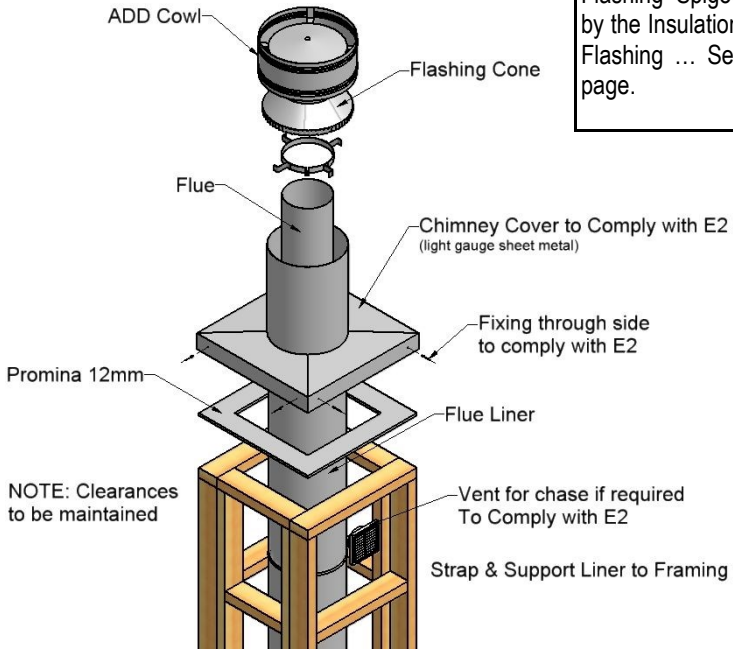
All flashing to comply with E2.

All external air vents and ceiling penetrations are to be Vermin and Rodent proof.

Test Report Number	Date of Report
04/1039	20 th July 2004
04/1040	20 th July 2004
04/1041	20 th July 2004

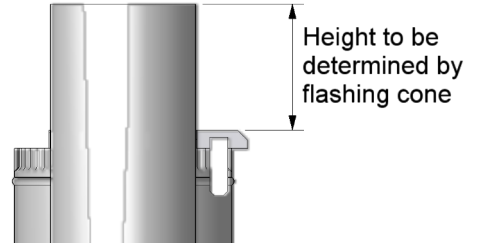
CHIMNEY CHASE FLASHING DETAILS SETTING ADD COWL AND FLASHING CONE HEIGHT

General Chimney Chase Flashing Lay Out



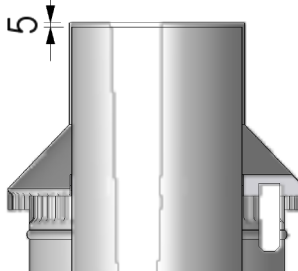
Note:
Flashing Spigot height is determined by the Insulation that is fitted under the Flashing ... See Details at bottom of page.

STEP 1



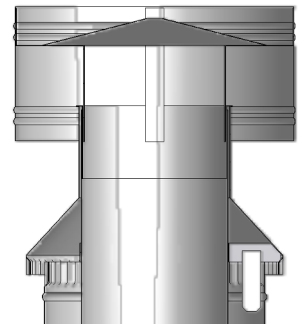
STEP 2

Flue 5mm Below Top Of Flashing Cone



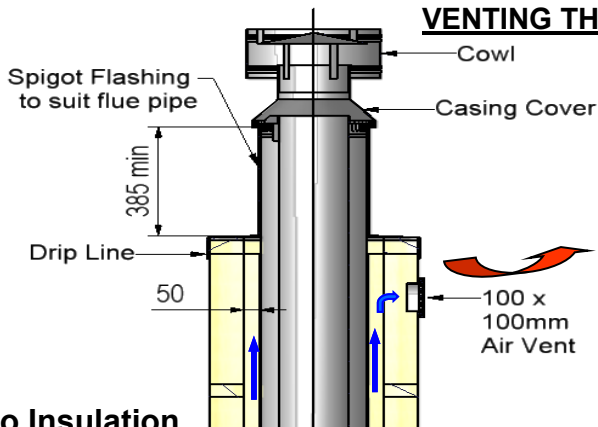
STEP 3

ADD Cowl Sits on Top of Flashing Cone, screw to secure

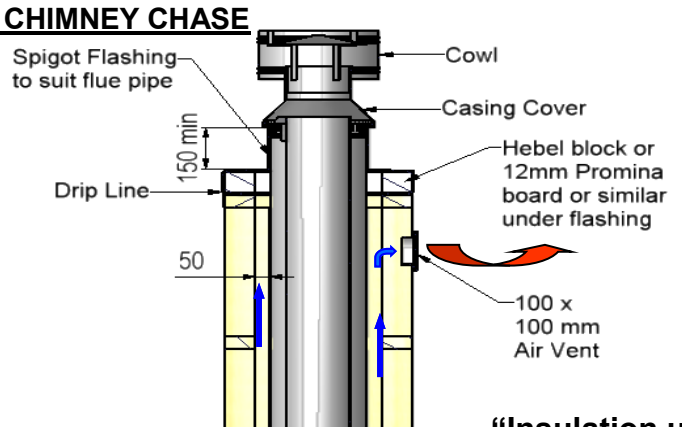


“CHIMNEY CHASE FLASHING” AND “AIR VENTILATION” OPTIONS

VENTING THROUGH CHIMNEY CHASE

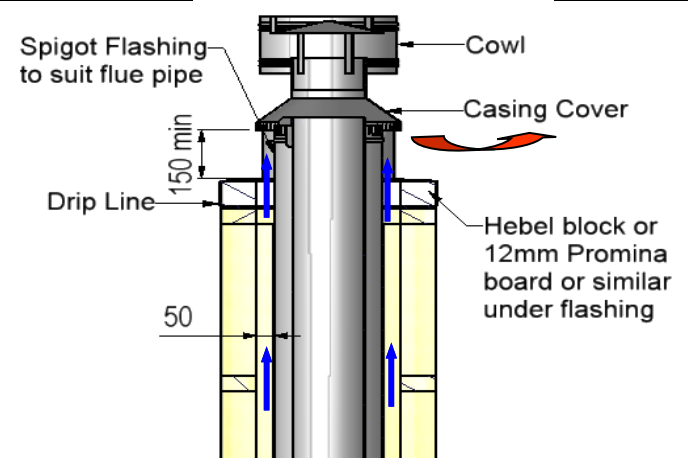
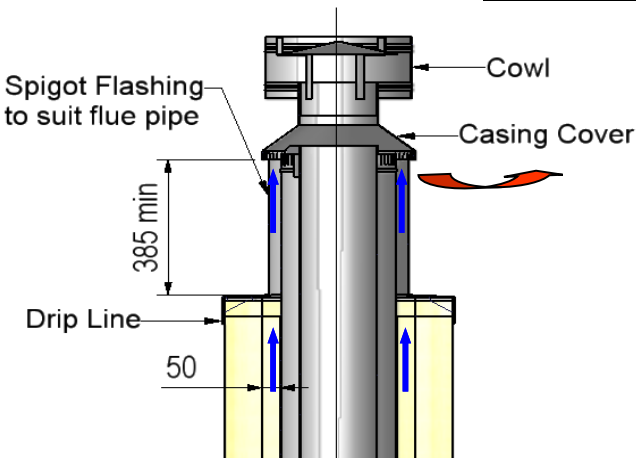


“No Insulation under flashing”



“Insulation under flashing”

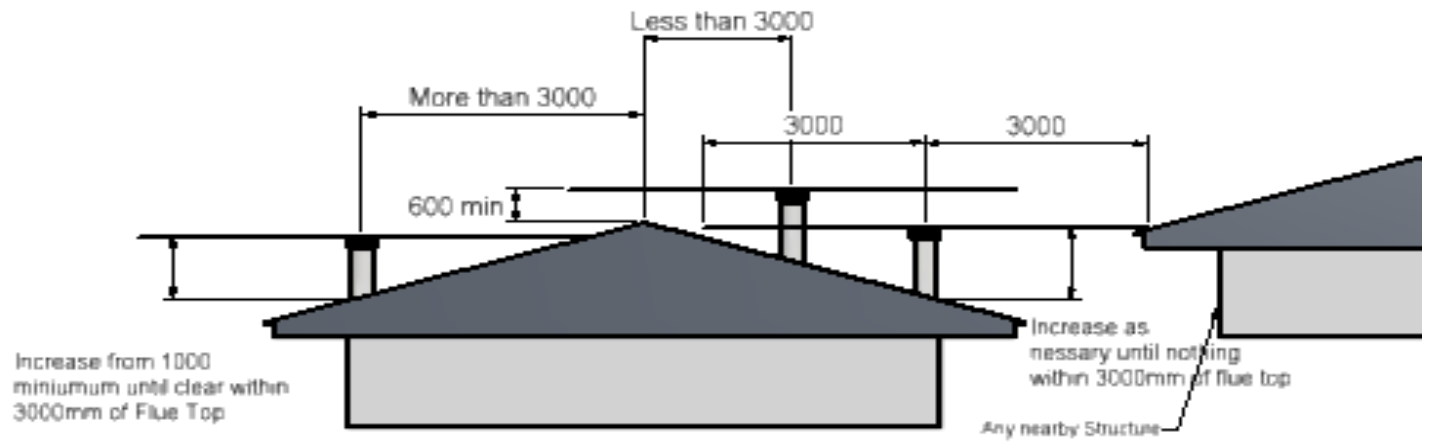
VENTING THROUGH FLASHING



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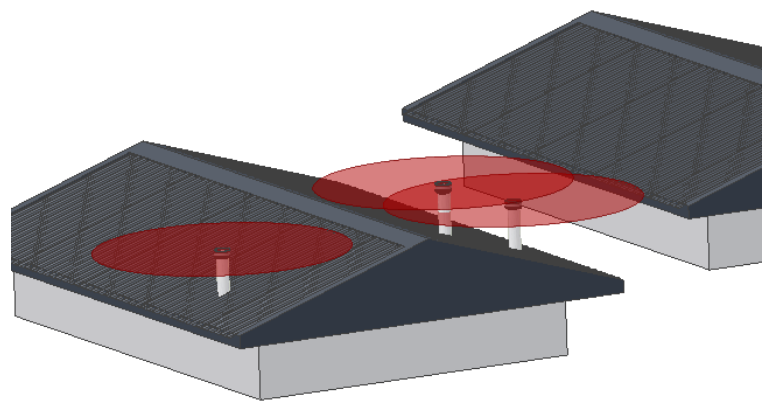
FLUE HEIGHT MINIMUM DETAILS

Note flue system casing:
 Flue system may require to be Doubled lined to comply.
 Ref ASNZS:2918:2001 4.3 Flue pipe casing



The flue exit is to comply to ASNZS 2918 : 2001

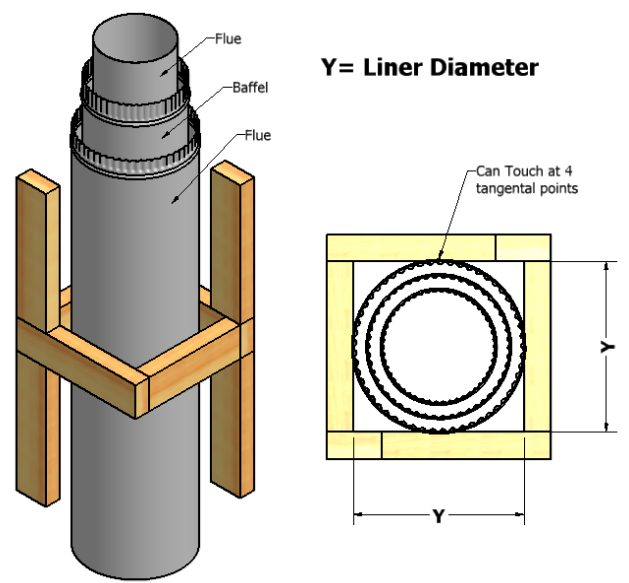
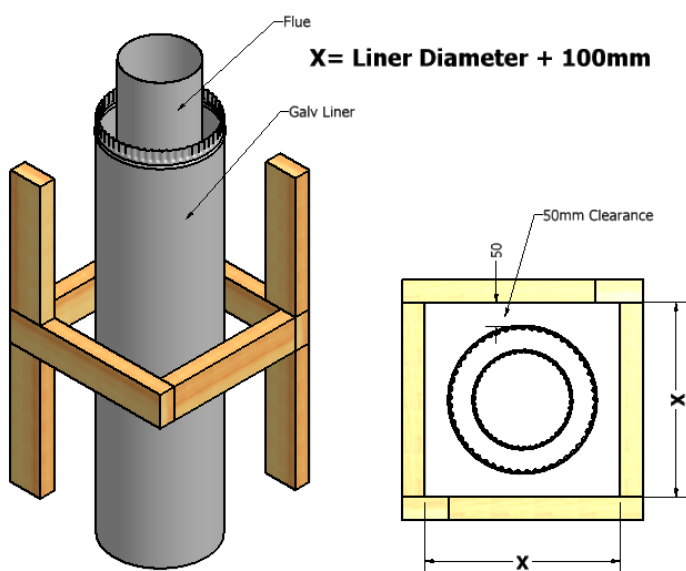
3D View



FRAME OUT AND TRIM OUT DETAILS FOR CHIMNEY CHASE

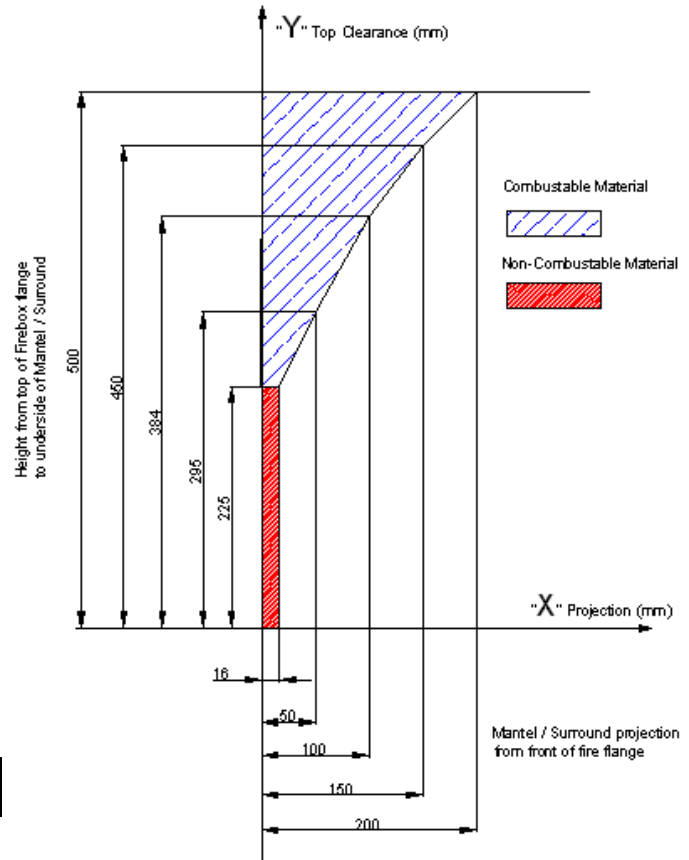
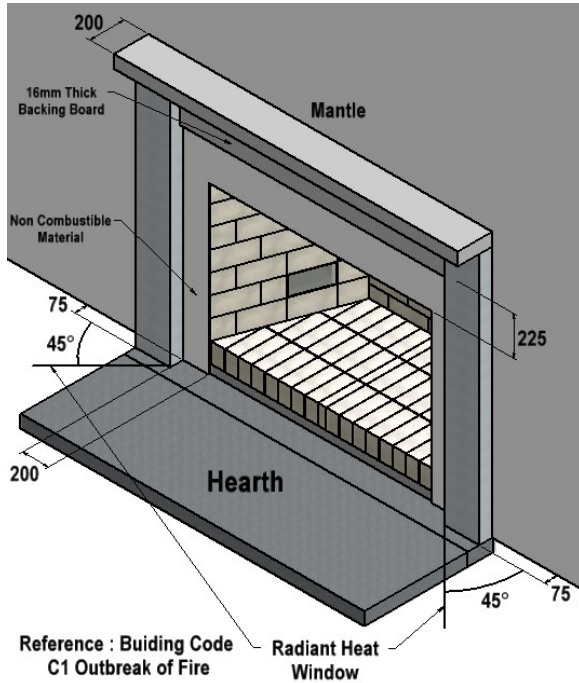
Option X – Singled Lined Flue System

Option Y – Double Lined Flue System



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COMBUSTIBLE MANTEL CLEARANCES



GENERAL NOTES: ASNZS 2918: 2001

NOTES:

- For the fire operational and Maintenance instructions visit www.warmington.co.nz and up load the PDF.
- Correct Installation must be maintained to comply with Warmington Warranty.
- The Appliance and Flue System must be installed in accordance with ASNZS2918:2001 and the appropriate Building codes.
- The Flue system and fireplace is to be swept annually or more frequently if required.

IMPORTANT NOTE ABOUT RUMFORD FIRES

Like the traditional brickback fire of yesteryear, the Warmington Rumford fire is built with the experience and techniques of the past. These make a grand statement in the home and with the introduction of the Gas Log Lighter for ease of lighting are simple to operate, however they can lack in efficiency.

WARNINGS:

- **WARNING; ANY MODIFICATION OF THE APPLIANCE THAT HAS NOT BEEN APPROVED IN WRITING BY THE TESTING AUTHORITY IS CONSIDERED AS BREACHING AS/NZS 4013.**
- **WARNING; DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS TO START OR REKINDLE THE FIRE.**
- **WARNING; DO NOT USE FLAMMABLE LIQUIDS OR AEROSOLS IN THE VICINITY OF THIS APPLIANCE WHEN IT IS OPERATING.**
- **WARNING; DO NOT STORE FUEL WITHIN HEATER INSTALLATION CLEARANCES.**
- **WARNING; WHEN OPERATION THIS APPLIANCE AS AN OPEN FIRE USE A SPARK SCREEN.**
- **CAUTION: THIS APPLIANCE SHOULD BE MAINTAINED AND OPERATED AT ALL TIMES IN ACCORDANCE WITH THESE INSTRUCTIONS**
- **CAUTION: THE USE OF SOME TYPES OF PRESERVATIVE-TREATED WOOD AS A FUEL CAN BE HAZARDOUS.**

Industries 1994 LTD

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Due to continued product improvement, Warmington Ind LTD reserves the right to change product specifications without prior notification.